

02228

NPIC/TSSG/DED-1332-63  
21 August 1968

MEMORANDUM FOR: Chief, Imagery Exploitation Group, NPIC  
ATTENTION: Chief, Plans, Budget and Equipment Staff  
SUBJECT: Prototype Twin-Stage, On-Line P.I. Comparator

1. The subject comparator is presently being developed by [ ] under contract to Development Engineering Division, NPIC. In the original solicitation for this program, the development contemplated incorporating a reticle in the optical path that consisted solely of a twenty micron dot. Because of the absolute necessity of maintaining the reference marks (dots) superimposed, the Development Engineering Division believed then and still believes that this reticle would be most satisfactory and, therefore, incorporated it into the technical specifications -- a dot is relatively insensative to rotation errors, etc.

2. After considerable discussion with representatives of both IAS and IEG, it was determined that the plain dot would not be satisfactory to the photo interpreters based upon their prior experience with this reticle configuration. Another solution was suggested which consists of a reticle having a twenty micron dot and two twenty by five hundred micron lines 180° apart pointing to the dot. The lines will be vertical in one optical path and horizontal in the other. The dots will be aligned to maintain superimposition and neither reticle will be removable from the optical path. The subject development is proceeding under the assumption that this reticle configuration is satisfactory with both IAS and IEG.

[ ]  
Chief, Technical Services & Support Group  
NPIC

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